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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/852,899	52,899 05/10/2001		Alvin P. Short	01 P 08366 US (8055-25)	5432
75	590	03/19/2002			
Frank Chau			EXAMINER		
F. CHAU & AS Suite 501			MAI, ANH D		
1900 Hempstead Turnpike East Meadow, NY 11554				ART UNIT	PAPER NUMBER
				2814	
				DATE MAILED: 03/19/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		09/852,899	SHORT, ALVIN P.				
	Office Action Summary	Examiner	Art Unit				
		Anh D. Mai	2814				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE O MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 🖂	Responsive to communication(s) filed on 10 N						
2a) <u></u> 	,	is action is non-final.	et a sala dha maadda ta				
,—	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims AND Claim(a) 4.47 is/are pending in the application							
 4) Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 							
5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected.							
,	Claim(s) is/are objected to.						
•	Claim(s) 1-17 are subject to restriction and/or	election requirement					
,	on Papers	Steetion requirement.					
9) The specification is objected to by the Examiner.							
10) 🔲 🛚	The drawing(s) filed on is/are: a)☐ accep	oted or b) objected to by the Exa	miner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
	If approved, corrected drawings are required in rep	oly to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notic 2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)				
J.S. Patent and To PTO-326 (Re		ction Summary	Part of Paper No. 2				

Application New

Applicant(s)

Application/Control Number: 09/852,899

Art Unit: 2814

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-6, Group I, are drawn to semiconductor device, classified in class 257,
 subclass 301.
 - II. Claims 7-17, Group II, are drawn to method of making, classified in class 438, subclass 386.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions Group I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the semiconductor device can be made by forming a trench in a substrate; depositing a layer of doped glass in the trench; annealing the substrate to diffuse the dopant from the doped glass into the bottom and sidewalls of the trench; removing the doped glass; depositing a conformal dielectric layer lining the trench; exposing the bottom of the trench using RIE to remove the dielectric layer formed at the bottom of the trench; conformally depositing a conductive layer in the trench; removing an upper portion of the conductive layer in the trench; forming a dielectric layer covering the surface of the conductive layer; forming a second conductive layer over dielectric layer and filling in the trench.
- Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR

1.143).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Anh D. Mai whose telephone number is (703) 305-0575. The

examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri can be reached on (703) 306-2794. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 308-7722 for regular

communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

A.M

March 14, 2002

OLIK CHAUDHURI SUPERVISORY PATENT EXAMINER

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